## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT04-042	FOR FURTHER ACTION	as well as	see Form PCT/ISA/220 , where applicable, item 5 below.
International application No.	International filing date (day/mo	nth/year)	(Earliest) Priority Date (day/month/year)
PCT/KR2004/003042	24 NOVEMBER 2004 (2		
	24 NOVENIBER 2004 (2		
Applicant			
LG Cable Ltd. et al			
This International search report has been prep to Article 18. A copy is being transmitted to the This international search report consists of a term.	he International Bureau.	ing Authority	and is transmitted to the applicant according
	y of each prior art document cited	l in this report	
Basis of the report     a. With regard to the language, the integrated language in which it was filed, unless	ss otherwise indicated under this	tem.	·
The international search this Authority (Rule 23.		translation of t	he international application furnished to
<u> </u>		closed in the i	nternational application, see Box No. I.
2. Certain claims were found un	searchable (See Box No. II)		
3. Unity of invention is lacking (	See Box No. III)		
4. With regard to the title,			[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
the text is approved as submitte	d by the applicant.		(基) (40, 2.2% )型[
the text has been established by	this Authority to read as follow	rs:	
			( TO 15 10 1
•			
5. With regard to the abstract,			
the text is approved as submitte	ed by the applicant.		
the text has been established, a	ccording to Rule 38.2(b), by this	Authority as i	t appears in Box No. IV. The applicant
may, within one month from th	e date of mailing of this internati	onal search rep	port, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be pub	lished with the abstract is Figure	No. 2	
as suggested by the applic		<del></del>	
because the applicant faile	ed to suggest a figure.		
because this figure better	characterizes the invention.		
b. none of the figure is to be publi	ished with the abstract.		

International application No.

#### PCT/KR2004/003042 CLASSIFICATION OF SUBJECT MATTER IPC7 H05K 7/20 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) JPC 7 H05K 1/00 - 13/08 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese utility models since 1974 Korean patens and utility models since 1947 Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category\* Citation of document, with indication, where appropriate, of the relevant passages 1 - 31US 6097602 A (Marian, Inc.) 01 Aug 2000 Α See the whole document 1 - 31 US 2003/0129863 A1 (International Business Machines Corporation) 10 Jul 2003 See the whole document 1 - 31US 2004/0080915 A1 (Koninklijke philips electronics N.V.) 29 Apr 2004 P,A See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: "T" later document published after the international filing date or priority "A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand to be of particular relevance the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be earlier application or patent but published on or after the international considered novel or cannot be considered to involve an inventive filing date step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is special reason (as specified) document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 25 FEBRUARY 2005 (25.02.2005) 25 FEBRUARY 2005 (25.02.2005) Authorized officer Name and mailing address of the ISA/KR Korean Intellectual Property Office

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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### INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/003042

A. CLASSIFICATION OF SUBJECT MATTER		
IPC7 H05K 7/20		
According to International Patent Classification (IPC) or to both national	onal classification and IPC	· · · · · · · · · · · · · · · · · · ·
B. FIELDS SEARCHED	alweification cumbale)	-
Minimum documentation searched (classification system followed by IPC 7 H05K 1/00 - 13/08	A CISSUITGARON SAMOORS)	
Documentation searched other than minimum documentation to the dapanese utility models since 1974	extent that such documents are included in the f	neids scarched
Korean patens and utility models since 1947		
Electronic data base consulted during the intertnational search (name	of data base and, where practicable, search terr	ms us <b>ed)</b>
Electionic data pase constitute and man intermetations section (	•	
_ · · ·	system followed by classification symbols)  cumentation to the extent that such documents are included in the fields searched distinct to the extent that such documents are included in the fields searched distinct to the extent that such documents are included in the fields searched distinct to the extent that such documents are included in the fields searched distinct to the extent that such documents are included in the fields searched distinct to the extent to claim No.  RELEVANT  Indication, where appropriate, of the relevant passages  Relevant to claim No.  1 - 31  Later document passages  Relevant to claim No.  1 - 31  Later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an invention cannot be considered to involve an inventive step when the document is fasted alone "You document is fasted alone "You document is particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one of more other such document is combined with one of more other such documents. Such combination being obvious to a passo skilled in the art "2" document is particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one of more other such documents. Such combination being obvious to a passo skilled in the art "2" document is faster of the same patent family  Date of mailing of the international search report	
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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Further documents are listed in the continuation of Box C.		
Special categories of cited documents:     An document defining the general state of the art which is not considered	date and not in conflict with the application	on but cited to understand
to be of particular relevance	the principle or theory underlying the inve-	ntion ned invention cannot be
"E" earlier application or patent but published on or after the international filing date	to involve an inventive	
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other	"Y" document of particular relevance; the clair	ned invention cannot be
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other	combined with one or more other such doc	cuments, such combination
means "P" document published prior to the international filing date but later	being obvious to a person skilled in the art "&" document member of the same patent famil	у
than the priority date claimed	Date of mailing of the international search re	enort
Date of the actual completion of the international search		
25 FEBRUARY 2005 (25.02.2005)	Authorized officer	
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920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	HONG, Geun Jo	(周向為)
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Telephone No. 82-42-481-5747

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